

**Notice of Allowability**

Application No.

10/086,582

Examiner

Abbas I Abdulsalam

Applicant(s)

JACK KNIGHT III ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/09/04.
2. ☒ The allowed claim(s) is/are 1-19.
3. ☒ The drawings filed on 27 February 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**XIAO WU**  
**PRIMARY EXAMINER**

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Trent Keisling on 12/23/04.

The application has been amended as follows:

In claim 14, line 11, delete "touch".

In claim 14, line 12, after "sensor", insert---means--.

### ***Allowable Subject Matter***

2. The following is an examiner's statement of reasons for allowance:

Bishop et al. (USPN 5923319) teach front cover assembly is provided for use with a touch sensitive display device, the touch sensitive display device including a display such as a Liquid Crystal Display (LCD). Bishop et al. teach that the front cover assembly has a top cover, an infrared bezel and a piece of glass, the top cover being inserted into a mold along with the piece of glass. Bishop et al. further teach the use of teach polyurethane providing a mechanical lock around the glass and top cover and protecting the touch sensitive display device. See Fig. 4

Regarding claim 1, none of the cited prior teaches or suggests a unitary lens filter for a responsive display device with associated process control equipment having an internal screen adapted to display process information to facilitate operator control of the process and a sensor adapted to receive operator control input, said lens filter comprising: a front cover anchoring said lens filter to the process control equipment, said front cover defining a central port through which said display device may be observed by the operator; a substantially transparent seamless lens filter housed in said central port, said seamless lens filter permitting an operator to view process control information shown on said display device; a bezel integral with said seamless rear lens for securing said seamless rear lens to said front cover, said bezel having a periphery extending substantially beyond the periphery of said seamless rear lens and wherein said bezel is formed simultaneously with the formation of said seamless rear lens forming a seamless lens filter shield, and both are formed by molding or forming to form as aid lens filter shield impenetrable by high pressure liquids to thereby protect said display device; and an integral reinforcing lens permitting said sensor to receive operator input there through and securing said rear lens periphery to said bezel to stabilize said and thereby substantially dissipate any external force including repetitive operator contact to prevent interruption of operator input when the force is inadvertently applied to said rear lens.

Regarding claim 8, none of the cited prior teaches or suggests an internal display lens filter for an associated process machine adapted to display process information reviewable by an operator, said lens comprising: a front cover captivating a bezel against an internal lens retainer

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for securing an integral and substantially transparent rear lens filter and lens to the machine in an operative configuration to display process information through aid lens filter and receive operator input through said lens, so said lens filter and said lens are held in place relative to the machine and wherein said bezel is formed simultaneously with the formation of said rear lens filter forming a seam less lens filter shield and wherein said bezel forms a mechanical lock to the machine that provides a liquid tight seal; an integral reinforcing edge formed about the periphery of the bezel for diffusing a touch force when the touch is applied to said lens or said rear lens filter; wherein said reinforcing edge, said bezel, said lens and said internal lens retainer for a housing adapted to protectively captivate a plurality of opposing emitters and receivers disposed around the periphery of said lens, said emitter and receivers forming a grid over said rear lens; a display disposed behind and adjacent to said lens and adapted to display process information behind said grid; and a controller adapted to interpret interruptions in said grid and providing input coordinates fro said interruptions; wherein said front cover is secured to the machine to captivate said lens against the machine to protect said display.

Regarding claim 14, none of the cited prior art teaches or suggests a computer system display adapted to show process information and receive operator input, said system comprising a system unit in a substantially rigid housing with a central access port said system unit comprising an internal display means for displaying process information in said access port and sensor means for receiving operator input adjacent said display means; and an exterior lens assembly covering said access port and having a bezel integral with said exterior lens with inner edges describing a lens circumscribing said access port said bezel made of a polycarbonate

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material, and inwardly placed rear lens filter that covers said access port yet permits the displaying of process information therethrough and wherein said lens assembly is adapted to completely prevent liquid entry through said access port said lens assembly captivated to said housing to provide a liquid tight- seal to protect said touch sensor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communication from the examiner should be directed to **Abbas Abdulsalam** whose telephone number is **(703) 305-8591**. The examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard Hjerpe**, can be reached at **(703) 305-4709**.

**Any response to this action should be mailed to:**

Commissioner of patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

**(703) 872-9314**

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Hand delivered responses should be brought to Crystal Park II, Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 2600 customer Service office whose telephone number is (703) 306-0377.

Abbas Abdulsalam

Examiner

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December 15, 2004

  
**XIAO WU**  
**PRIMARY EXAMINER**